Indiana Winter Weather Preparedness Week is November 16-22, 2008

Governor Mitch Daniels has proclaimed November 16-22, 2008 as Winter Weather Preparedness Week in Indiana.

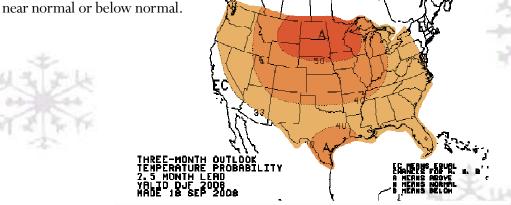
The National Weather Service (NWS) will conduct a winter weather preparedness campaign during the month of November. The purpose of the preparedness campaign is to remind Indiana citizens of winter's hazards, how to stay safe, and to educate everyone about preparedness.

The Warning Coordination Meteorologist (WCM) serving your area will be available for interviews and questions.

Winter Outlook

Sam Lashley—Senior Forecaster, National Weather Service, Northern Indiana

What will this upcoming winter season bring to the Hoosier state? The official outlook issued by the Climate Prediction Center (CPC) is calling for higher probabilities of above normal temperatures, with equal chances of precipitation being above normal,



Temperature outlook for December through January. This is showing a 40 percent chance of above normal temperatures for Indiana.

So what does this mean exactly? The CPC uses a combination of techniques to derive their forecasts, which includes looking at active states of the Earth's atmosphere and oceans as well as statistical analysis tools and trends in the historical data.

The outlook maps provide a probability forecast based on the analysis. Equal chances

(Continued on page 6)

A full color version of this publication is available on-line at:

http://www.weather.gov/pah

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NWS Contacts

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NWS Chicago Jim Allsopp, WCM 815-834-0600 x726 Jim.Allsopp@noaa.gov

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NWS Wilmington Mary Jo Parker , WCM, 937-383-0031 Mary.Parker@noaa.gov

Winter Weather Winter 2008/2009



Be Red Cross Ready

Get A Kit. Make A Plan. Be Informed.

Disaster Supplies Starter Kit

- Water (one gallon per person per day)
- Food (3-day supply for each person)
- First Aid Kit
- Battery operated or hand-crank radio
- Flashlights and extra batteries
- Clothing
- Blankets or Sleeping Bags
- Special Items
 - Items for babies or older adults
 - Prescriptions
 - Pet supplies
 - Important Family Documents

Make a Plan

- Learn about the disasters that happen in your community and prepare for each.
- Know the disaster plans of your workplace, school or other places you spend time.
- Keep enough supplies in your home to meet your needs
- Identify an out-of-state friend or relative to contact
- Include your pets in your plan.

For more information on getting prepared, visit www.indyredcross.org



Keep ahead of the storm by listening to NOAA Weather Radio for the latest winter storm watches, warnings, and advisories. In addition to routine broadcasts, the Specific Area Message Encoding (SAME) feature of NOAA Weather Radio activates the Emergency Alert System (EAS). provide notification of emergencies to the public. EAS is used to Blizzard warnings will always be distributed through the EAS, while other winter storm warnings may be if deemed life threatening or particularly urgent.



Veather Radio

VOAA's National Weather Service

Special needs NOAA Weather Radios designed to meet the needs of the hearing impaired are available.

For more information, visit the NOAA Weather Radio Web Site at: http://www.nws.noaa.gov/nwr. For Special Needs NOAA Weather Radio information, visit:

http://www.nssl.noaa.gov/edu/safety/specialneeds.html

Winter 2008/2009 Winter 2008/2009 Winter Weather Your Plans

Winter Weather Preparedness For Schools

Gathering information

- * Know where to get weather information: Utilize NOAA Weather Radio, local Media sources, Internet, and paging services.
- * Know how and where to get road information: Indiana State Police road conditions (visit http://www.in.gov/isp/2657.htm for additional information), city and county transportation officials, and drivers or security teams are excellent sources.

Alerting students and staff

★ Alert students and staff to take action: Use mobile communications for bus drivers, and a PA system for school staff and students.

Activating plan

★ Determine when to activate plan: Gather information about the type of winter storm, expected impact, and time of impact on the school district. The primary decision will be whether to cancel, delay, or hold classes as usual. In watch situations, immediate action will usually not be required. When a warning or advisory is issued, assess the weather situation by monitoring NWS forecasts, current weather conditions, and road conditions.

Canceling or Delaying Classes

▶ Determine when to cancel or delay classes: How much time do you have before the storm impacts the area? Not only must students be transported to school safely, but also back home via bus, car, or on foot. What kind of an impact will the storm make? Will roads be impassable, or will road conditions just have a minimal effect on transportation of students, causing only small delays?

School Bus Driver Actions

- **★** For heavy snow or blowing and drifting snow: Be familiar with alternate routes, stay up to date on the latest forecast, and maintain communication with school officials.
- **★** For ice storms: Remain alert for downed trees, utility lines, and other road hazards. Be familiar with alternate routes. Stay up to date on the forecast and maintain communication with school officials.
- ★ Extreme cold: Learn to recognize and treat symptoms of hypothermia and frostbite.

Safety Instruction

- * Educate school staff and students: Conduct drills and hold safety programs annually.
 - ★ Participate in Winter Weather Awareness Week campaigns.
 - * Contact your local Emergency Manager or National Weather Service Office for a speaker to discuss winter weather safety.



Winter weather claims nearly 100 lives annually.

Related to ice and snow:

- About 70% occur in automobiles
- About 25% are people caught out in the storm
- Majority are males over 40 years old

Winter Deaths

Related to exposure to cold:

- 50% are people over 60 years old
- ★ Over 75% are males
- About 20% occur inside the home



Winter Weather Awareness Week Page 3

With a wind chill temperature of minus 50°F, frostbite will occur within 10 minutes.

At minus 30°F, frostbite will occur within 30 minutes.

Frostbite

Frostbite is damage to body tissue caused by that tissue being frozen. Frostbite causes a loss of feeling and a white or pale appearance in extremities, such as fingers, toes, ear lobes, or the tip of the nose. If symptoms are detected, get medical help immediately! If you must wait for help, slowly re-warm the affected areas. However, if the person is also showing signs of hypothermia, warm the body core before the extremities.

Hypothermia: Low Body Temperature

Warning Signs - Uncontrollable shivering, memory loss, disorientation, incoherence, slurred speech, drowsiness, and apparent exhaustion.

Detection - Take the person's temperature. If below 95°F (35°C), seek medical care immediately! If medical care is not available, begin warming the person slowly. Do not warm extremities (arms and legs) first! This drives the cold blood toward the heart and can lead to heart failure. Instead, warm the body core first. If needed, use your own body heat to help. Get the person into dry clothing and wrap them in a warm blanket, covering the head and neck. **Do not give the person alcohol, drugs, coffee, or any hot beverage or food; warm broth is better.**

WIND CHILL CHART

Temperature (°F)

	Calm	40	35	30	25	20	15	10	5	0	-5	-10	-15	-20	-25	-30	-35	-40	-45
	5	36	31	25	19	13	7	1	-5	-11	-16	-22	-28	-34	-40	-46	-52	-57	-63
	10	34	27	21	15	9	3	-4	-10	-16	-22	-28	-35	-41	-47	-53	-59	-66	-72
	15	32	25	19	13	6	0	-7	-13	-19	-26	-32	-39	-45	-51	-58	-64	-71	-77
	20	30	24	17	11	4	-2	-9	-15	-22	-29	-35	-42	-48	-55	-61	-68	-74	-81
(mph)	25	29	23	16	9	3	-4	-11	-17	-24	-31	-37	-44	-51	-58	-64	-71	-78	-84
Wind (m	30	28	22	15	8	1	-5	-12	-19	-26	-33	-39	-46	-53	-60	-67	-73	-80	-87
	35	28	21	14	7	0	-7	-14	-21	-27	-34	-41	-48	-55	-62	-69	-76	-82	-89
5	40	27	20	13	6	-1	-8	-15	-22	-29	-36	-43	-50	-57	-64	-71	-78	-84	-91
	45	26	19	12	5	-2	-9	-16	-23	-30	-37	-44	-51	-58	-65	-72	-79	-86	-93
	50	26	19	12	4	-3	-10	-17	-24	-31	-38	-45	-52	-60	-67	-74	-81	-88	-95
	55	25	18	11	4	-3	-11	-18	-25	-32	-39	-46	-54	-61	-68	-75	-82	-89	-97
	60	25	17	10	3	-4	-11	-19	-26	-33	-40	-48	-55	-62	-69	-76	-84	-91	-98
	FROSTBITE OCCURS IN:				30 minutes		10 minutes		5 minutes										



When Caught in a Winter Storm

At Home or in a Building

Stay inside. When using alternative heat from a fireplace, wood stove, space heater, etc., use fire safeguards and ventilate properly.

If you have no heat:

- * Close off unneeded rooms.
- * Stuff towels or rags in cracks under doors.
- * Cover windows at night.

Eat and drink. Food provides the body with energy for producing its own heat. Keep the body replenished with fluids to prevent dehydration.

Wear layers of loose-fitting, light-weight, warm clothing. Remove layers to avoid overheating, perspiration, and subsequent chill.

extended into the first day of spring, deposited 12 inches of snow at Indianapolis

March, 19-20, 1996

A snow storm which

snow at Indianapolis and 10 inches at Evansville. The weight of the snow brought down thousands of trees and power lines, leaving over 200,000 homes and businesses without power.

In a Car or Truck

Stay in your vehicle. Disorientation occurs quickly in wind-driven snow and cold. Run the motor about ten minutes each hour for heat:

- * To avoid carbon monoxide poisoning, open the window a little for fresh air.
- * Quickly make sure the exhaust pipe is not blocked.

Make yourself visible to rescuers:

- * Turn on your dome light at night when running the engine.
- * Tie a colored cloth (preferably red) to your antenna or door.
- Raise the hood to indicate trouble after the snow stops falling.

Exercise from time to time by vigorously moving arms, legs, fingers, and toes to keep blood circulating and to keep warm.

January 31, 2002

A major ice storm strikes northern Indiana, snapping trees and power lines. Ice accumulations of one and a half inches occurred and over 250,000 homes were without power during the storm.

Outside

Find shelter:

- ★ Try to stay dry.
- * Cover all exposed parts of the body.

If no shelter:

- * Prepare a lean-to, wind-break, or snow cave for protection from the wind.
- Build a fire for heat and to attract attention.
- * Place rocks around the fire to absorb and reflect heat.

October 19, 1989

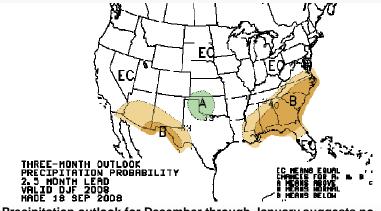
An extremely unusual early season snowstorm dropped 8 to 11 inches of snow on northern and central Indiana.

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Winter Outlook (Continued from page 1)

(EC) indicate that an area has a 33.3 percent chance of experiencing above normal, near normal, or below normal temperatures or precipitation. The EC category is often used when there is no strong signal as to what may occur.

When an area on the map is shaded as having a higher probability of above or below normal conditions, it does not necessarily mean those conditions will occur, but it means the probabilities are higher for its occurrence. Indiana is in the 40 percent probability category of above normal temperatures. In most cases, there is always a 33.3 percent chance of near normal, so the probability of experiencing below normal temperatures is 26.7 percent (probabilities of these 3 categories must always equal 100 percent). Precipitation forecasts for Indiana suggest equal chances (33.3 percent) of experiencing above normal, near normal, or below normal precipitation.



Precipitation outlook for December through January suggests no clear extreme. There are equal chances of above, below, or near normal.

When there is a La Nina or El Nino (a warming of the equatorial Pacific Ocean waters), the atmosphere usually responds in an expected way, which leads CPC to forecast certain parameters with more confidence. The La Nina of last winter has faded and the ocean water temperatures are near normal (neutral conditions) as of early October. The lack of a distinct La Nina or El Nino actually creates more uncertainty in long range seasonal outlooks for the Great Lakes region. These events directly affect the oceans and atmosphere across North America and these changes allow us to forecast with reasonable skill. The absence of these large scale influences means more subtle features in the atmosphere and oceans can play a role in our weather and therefore have less predictability. In the case of weak La Nina / El Nino forecasters look at historical trends and statistical tools. If conditions in the Pacific Ocean unexpectedly change toward La Nina or El Nino conditions, then the outlooks for our area could change. Always check for the latest updates, which are issued near the beginning and middle of each month. CPC outlooks are available at http://www.cpc.noaa.gov.

Page 6 Winter Weather Awareness Week

Winter brings more than just snow. . .





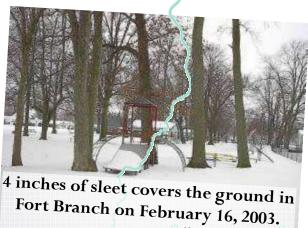


Photo courtesy Charlie Kiesel



Pre-Christmas snowstorm blanketed the Ohio River Valley. This impacted Southern Indiana with over 2 ft of snow.

National Weather Service

Weather Forecast Office Paducah 8250 Kentucky Highway 3520 West Paducah, KY 42086-9762

(270) 744-6440



WINTER WEATHER TERMS...WHAT TO LISTEN FOR

Hazardous Weather Outlook — will be issued to alert the public of the potential for hazardous winter weather. This outlook will be issued daily and will provide weather information through the next 7 days.

Winter Storm Watch — is issued to inform the public of the possibility of one or a combination of the following events: blizzard conditions, heavy snow, significant and damaging accumulations of freezing rain, or heavy sleet. A watch usually gives 12 to 48 hours advance notice of the onset of winter weather conditions.

Winter Storm Warning — is issued when heavy snow, or a mixture of heavy snow, freezing rain, and/or sleet is expected.

Ice Storm Warning - An Ice Storm Warning is issued when significant and damaging ice accumulations (usually one quarter inch or more) are expected.

Advisories — issued for winter weather events that are hazardous, but not severe enough to warrant a warning. Advisories may be issued for: snow and/or blowing snow, lake effect snow, freezing rain, freezing drizzle, wind chill, wind, and dense fog.

Internet Sites

National Oceanic and Atmospheric Administration (NOAA)

http://www.noaa.gov

National Weather Service

http://www.weather.gov

National Weather Service Indianapolis

http://www.weather.gov/ind

National Weather Service Northern Indiana

http://www.weather.gov/iwx

National Weather Service Louisville

http://www.weather.gov/lmk

National Weather Service Paducah

http://www.weather.gov/pah

National Weather Service Chicago

http://www.weather.gov/lot

National Weather Service Wilmington

http://www.weather.gov/iln

NWS Office of Meteorology Winter Weather Page

http://www.nws.noaa.gov/om/winter

NOAA Weather Radio

http://www.nws.noaa.gov/nwr

Climate Prediction Center

http://www.cpc.noaa.gov

Federal Emergency Management Agency

http://www.fema.gov

Ready America

http://www.ready.gov/

Be Red Cross Ready

http://www.redcross.org/BeRedCrossReady

American Red Cross Chapters

http://www.redcross.org/where/chapts.asp

Indiana Department of Homeland Security

http://www.in.gov/dhs/

Indiana Department of Transportation

http://www.in.gov/indot/

Indiana State Police

http://www.in.gov/isp/

Indiana Department of Education

http://www.doe.in.gov/











